

17. (New) A composition comprising a plurality of secondary variant proteins comprising a subset of said secondary library according to claim 14.

18. (New) A composition comprising a plurality of secondary variant proteins comprising a subset of said secondary library according to claim 15.

REMARKS

Claims 1 and 3 are pending. Claims 2, 4-9 have been canceled without prejudice or disclaimer as it is directed to a non-elected invention. New claims 10 -18 have been added. Support for added Claims 10-12 is found in original Claims 4-6. Support for added Claim 13 may be found in the Specification at page 2, lines 22-25. Support for added Claim 14 may be found in original Claim 9. Support for added Claim 15 may be found in the Specification at page 3, lines 8-10. Support for new Claims 16-18 may be found in the Specification at page 3, lines 1-3. Additional support for the addition of the new claims may be found in Claims 2 and 7 as originally filed. An "Appendix of Pending Claims" is attached for the Examiner's convenience.

The specification has been amended to fix a typographical error in the serial number for the provisional application filed March 3, 2000.

No new matter has been added by the above amendments. Applicants submit that the amendment to the above claims are proper because they are drawn to elected group I, and that the claims now depend from Claim 1 and are limitations of independent Claim 1.

Applicants submit that inventorship has not been changed by the cancellation of Claims 2, 4-9.

Attached hereto is a marked-up version of the changes made to the claims by this Amendment. The attached page is captioned "Version with Markings to Show Changes Made".

The Examiner is invited to contact the undersigned at (415) 781-1989 if any issues may be resolved in that manner.

Respectfully submitted,

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Dated: 1/15/03

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Filed under 37 C.F.R. § 1.34(a)

VERSION TO SHOW CHANGES MADE

In the Specification:

The paragraph beginning at page 1, line 2 has been amended as follows:

This application is a continuation of pending application Serial No. 09/782,004, filed on February 12, 2001, which claims the benefit of the filing date of Serial Nos. 60/181,630, filed on February 10, 2000; 60/18[4]6,904, filed on March 3, 2000; and, 60/197,851, filed on April 14, 2000, and is a continuation of Serial No. 09/419,315, filed on October 15, 1999, which claims the benefit of the filing date of Serial Nos. 60/158,700, filed October 8, 1999 and 60/104,612, filed October 16, 1998

In the Claims:

Claim 2 has been cancelled.

Claims 4-9 have been cancelled.

Appendix of Pending Claims

1. A method for generating a secondary library of scaffold protein variants comprising:
 - a) providing a primary library comprising a filtered set of scaffold protein primary variant sequences;
 - b) generating a list of primary variant positions in said primary library;
 - c) combining a plurality of said primary variant positions to generate a secondary library of secondary sequences.
3. A method according to claim 1 further comprising synthesizing a plurality of said secondary sequences.
10. A method according to claim 3 wherein said synthesizing is done by multiple PCR with pooled oligonucleotides.
11. A method according to claim 10 wherein said pooled oligonucleotides are added in equimolar amounts.
12. A method according to claim 10 wherein said pooled oligonucleotides are added in amounts that correspond to the frequency of the mutation.
13. A method according to Claim 1, wherein said generating step b) comprises a probability distribution of amino acid residues in a plurality of variant positions.
14. A method according to claim 13 wherein at least one of said secondary variants is different from said primary variant sequences.
15. A method according to claims 1 or 13 further comprising synthesizing a plurality of said secondary sequences.
16. A composition comprising a plurality of secondary variant proteins comprising a subset of said secondary library according to claims 1, 10-13.
17. A composition comprising a plurality of secondary variant proteins comprising a subset of said secondary library according to claim 14.
18. A composition comprising a plurality of secondary variant proteins comprising a subset of said secondary library according to claim 15.